



Figure S11. Confirmation of the *Parp* KD efficiency and the TDP-43 protein levels in the RNAi-*Parp* flies. **a** The qPCR analysis confirms the KD efficiency of RNAi-*Parp* in the heads of transgenic flies (GMR driver). **b** The Western blot analysis of the protein levels and solubility of hTDP-43 in the heads of either control RNAi-*mCherry* (RNAi-Ctrl) or RNAi-*Parp* flies. S, soluble in RIPA buffer; I, insoluble in RIPA buffer, and the pellets are re-suspended with 9 M of urea. **c** The relative protein levels of hTDP-43 are normalized to GAPDH and presented as the percentage to the relative level of the soluble hTDP-43 protein in the RNAi-Ctrl group. Mean \pm SEM; $n = 3$; $**p < 0.01$; Student's *t*-test; ns, not significant; ud, undetected.